0590
0405

#13

OIPE

P.6

```
 4 <110> APPLICANT: Sheppard, Paul O.
 5         Gilbertson, Debra G.
 7 <120> TITLE OF INVENTION: SECRETED PROTEINS ENCODED BY HUMAN
 8         CHROMOSOME 13
11 <130> FILE REFERENCE: 97-38C1
13 <140> CURRENT APPLICATION NUMBER: US 10/010,050A
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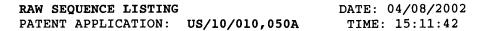
ENTERED

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C--> 14 <141> CURRENT FILING DATE: 2002-03-26
16 <150> PRIOR APPLICATION NUMBER: US 09/122,383
17 <151> PRIOR FILING DATE: 1998-07-24
19 <150> PRIOR APPLICATION NUMBER: US 60/053,613
20 <151> PRIOR FILING DATE: 1997-07-24
22 <160> NUMBER OF SEQ ID NOS: 19
24 <170> SOFTWARE: FastSEQ for Windows Version 4.0
26 <210> SEQ ID NO: 1
27 <211> LENGTH: 1486
28 <212> TYPE: DNA
29 <213> ORGANISM: Homo sapien
31 <220> FEATURE:
32 <221> NAME/KEY: CDS
33 <222> LOCATION: (47)...(1084)
35 <400> SEQUENCE: 1
36 gaattcggca cgagggcagg aggtagacac ggcacagggc gccgag atg cgg cgg      55
37                                                     Met Arg Arg
38                                                      1
40 ggc gcg ggc gcg gct cgg gga cgc gct tcc tgg tgc tgg gcg ctg gcg    103
41 Gly Ala Gly Ala Ala Arg Gly Arg Ala Ser Trp Cys Trp Ala Leu Ala
42     5                   10                  15
44 ctg ctt tgg ctc gcg gtg gtt ccg ggc tgg tcc cgg gtc tcg ggc atc    151
45 Leu Leu Trp Leu Ala Val Val Pro Gly Trp Ser Arg Val Ser Gly Ile
46  20                  25                  30                  35
48 ccc tcc cgg cgc cac tgg ccg gtg ccc tac aag cgc ttt gac ttc cgt    199
49 Pro Ser Arg Arg His Trp Pro Val Pro Tyr Lys Arg Phe Asp Phe Arg
50                  40                  45                  50
52 cca aaa cct gat cct tat tgt caa gct aag tat act ttc tgt cca act    247
53 Pro Lys Pro Asp Pro Tyr Cys Gln Ala Lys Tyr Thr Phe Cys Pro Thr
54                  55                  60                  65
56 ggc tca cct atc cca gtt atg gag ggt gat gat gac att gaa gtt ttt    295
57 Gly Ser Pro Ile Pro Val Met Glu Gly Asp Asp Asp Ile Glu Val Phe
58          70                  75                  80
60 cga tta caa gcc cca gta tgg gaa ttt aaa tat gga gac ctc ctg gga    343
61 Arg Leu Gln Ala Pro Val Trp Glu Phe Lys Tyr Gly Asp Leu Leu Gly
62      85                  90                  95
64 cac ttg aaa att atg cat gat gcc att gga ttc aga agt aca tta act    391
```

RAW SEQUENCE LISTING   DATE: 04/08/2002
PATENT APPLICATION: US/10/010,050A   TIME: 15:11:42

Input Set : A:\97-38ClSequence Listing.txt
Output Set: N:\CRF3\04082002\J010050A.raw

```
65 His Leu Lys Ile Met His Asp Ala Ile Gly Phe Arg Ser Thr Leu Thr
66 100             105             110             115
68 ggc aag aac tac aca atg gaa tgg tat gaa ctt ttc caa ctt ggc aac     439
69 Gly Lys Asn Tyr Thr Met Glu Trp Tyr Glu Leu Phe Gln Leu Gly Asn
70             120             125             130
72 tgt aca ttt ccc cat ctc cga cct gaa atg gat gcc cct ttc tgg tgt     487
73 Cys Thr Phe Pro His Leu Arg Pro Glu Met Asp Ala Pro Phe Trp Cys
74             135             140             145
76 aat caa ggc gct gcc tgc ttt ttt gag gga att gat gat gtt cac tgg     535
77 Asn Gln Gly Ala Ala Cys Phe Phe Glu Gly Ile Asp Asp Val His Trp
78             150             155             160
80 aag gaa aat ggg aca tta gtt caa gta gca act ata tca gga aac atg     583
81 Lys Glu Asn Gly Thr Leu Val Gln Val Ala Thr Ile Ser Gly Asn Met
82     165             170             175
84 ttc aac caa atg gca aag tgg gtg aaa cag gac aat gaa aca gga att     631
85 Phe Asn Gln Met Ala Lys Trp Val Lys Gln Asp Asn Glu Thr Gly Ile
86 180             185             190             195
88 tat tat gag aca tgg aat gta aaa gcc agc cca gaa aag ggg gca gag     679
89 Tyr Tyr Glu Thr Trp Asn Val Lys Ala Ser Pro Glu Lys Gly Ala Glu
90             200             205             210
92 aca tgg ttt gat tcc tac gac tgt tcc aaa ttt gtg tta agg acc ttt     727
93 Thr Trp Phe Asp Ser Tyr Asp Cys Ser Lys Phe Val Leu Arg Thr Phe
94             215             220             225
96 aac aag ttg gct gaa ttt gga gca gag ttc aag aac ata gaa acc aac     775
97 Asn Lys Leu Ala Glu Phe Gly Ala Glu Phe Lys Asn Ile Glu Thr Asn
98             230             235             240
100 tat aca aga ata ttt ctt tac agt gga gaa cct act tat ctg gga aat     823
101 Tyr Thr Arg Ile Phe Leu Tyr Ser Gly Glu Pro Thr Tyr Leu Gly Asn
102     245             250             255
104 gaa aca tct gtt ttt ggg cca aca gga aac aag act ctt ggt tta gcc     871
105 Glu Thr Ser Val Phe Gly Pro Thr Gly Asn Lys Thr Leu Gly Leu Ala
106 260             265             270             275
108 ata aaa aga ttt tat tac ccc ttc aaa cca cat ttg cca act aaa gaa     919
109 Ile Lys Arg Phe Tyr Tyr Pro Phe Lys Pro His Leu Pro Thr Lys Glu
110             280             285             290
112 ttt ctg ttg agt ctc ttg caa att ttt gat gca gtg att gtg cac aaa     967
113 Phe Leu Leu Ser Leu Leu Gln Ile Phe Asp Ala Val Ile Val His Lys
114             295             300             305
116 cag ttc tat ttg ttt tat aat ttt gaa tat tgg ttt tta cct atg aaa    1015
117 Gln Phe Tyr Leu Phe Tyr Asn Phe Glu Tyr Trp Phe Leu Pro Met Lys
118             310             315             320
120 ttc cct ttt att aaa ata aca tat gaa gaa atc cct tta cct atc aga    1063
121 Phe Pro Phe Ile Lys Ile Thr Tyr Glu Glu Ile Pro Leu Pro Ile Arg
122     325             330             335
124 aac aaa aca ctc tct ggt tta taaaacacct taattctact gctctttttt      1114
125 Asn Lys Thr Leu Ser Gly Leu
126 340             345
128 tctccaatca ccagcatctg tttttcaggg ggtgatttta cttttgtgaa ttccttagcc   1174
129 tttcttcctt ggtgcataaa gttaaaatgc acatcagcag aattgctgca tattaacatc   1234
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RAW SEQUENCE LISTING   DATE: 04/08/2002
PATENT APPLICATION: US/10/010,050A   TIME: 15:11:42

Input Set : A:\97-38ClSequence Listing.txt
Output Set: N:\CRF3\04082002\J010050A.raw

```
130 tcaggactct tctcttgtaa agaagctgaa attcgtacta tattggccaa agtgagcgag   1294
131 ttaggtgatc ttggtttcaa tttccgagcc tttgttaata tggagaatta tggttcatat   1354
132 cagttatgta ggacctttgg acccagggtc ctacagatag atatggtgtg cccagatttt   1414
133 aaaaatacct tcaaaaataa aaaatacatt cagtgacaaa aaaaaaaaaa aaaaaatagc   1474
134 ggccgcctcg ag                                                       1486
136 <210> SEQ ID NO: 2
137 <211> LENGTH: 346
138 <212> TYPE: PRT
139 <213> ORGANISM: Homo sapien
141 <400> SEQUENCE: 2
142 Met Arg Arg Gly Ala Gly Ala Ala Arg Gly Arg Ala Ser Trp Cys Trp
143 1               5                   10                  15
144 Ala Leu Ala Leu Leu Trp Leu Ala Val Val Pro Gly Trp Ser Arg Val
145             20                  25                  30
146 Ser Gly Ile Pro Ser Arg Arg His Trp Pro Val Pro Tyr Lys Arg Phe
147         35                  40                  45
148 Asp Phe Arg Pro Lys Pro Asp Pro Tyr Cys Gln Ala Lys Tyr Thr Phe
149     50                  55                  60
150 Cys Pro Thr Gly Ser Pro Ile Pro Val Met Glu Gly Asp Asp Asp Ile
151 65                  70                  75                  80
152 Glu Val Phe Arg Leu Gln Ala Pro Val Trp Glu Phe Lys Tyr Gly Asp
153             85                  90                  95
154 Leu Leu Gly His Leu Lys Ile Met His Asp Ala Ile Gly Phe Arg Ser
155             100                 105                 110
156 Thr Leu Thr Gly Lys Asn Tyr Thr Met Glu Trp Tyr Glu Leu Phe Gln
157         115                 120                 125
158 Leu Gly Asn Cys Thr Phe Pro His Leu Arg Pro Glu Met Asp Ala Pro
159 130                 135                 140
160 Phe Trp Cys Asn Gln Gly Ala Ala Cys Phe Phe Glu Gly Ile Asp Asp
161 145                 150                 155                 160
162 Val His Trp Lys Glu Asn Gly Thr Leu Val Gln Val Ala Thr Ile Ser
163             165                 170                 175
164 Gly Asn Met Phe Asn Gln Met Ala Lys Trp Val Lys Gln Asp Asn Glu
165         180                 185                 190
166 Thr Gly Ile Tyr Tyr Glu Thr Trp Asn Val Lys Ala Ser Pro Glu Lys
167         195                 200                 205
168 Gly Ala Glu Thr Trp Phe Asp Ser Tyr Asp Cys Ser Lys Phe Val Leu
169     210                 215                 220
170 Arg Thr Phe Asn Lys Leu Ala Glu Phe Gly Ala Glu Phe Lys Asn Ile
171 225                 230                 235                 240
172 Glu Thr Asn Tyr Thr Arg Ile Phe Leu Tyr Ser Gly Glu Pro Thr Tyr
173             245                 250                 255
174 Leu Gly Asn Glu Thr Ser Val Phe Gly Pro Thr Gly Asn Lys Thr Leu
175         260                 265                 270
176 Gly Leu Ala Ile Lys Arg Phe Tyr Tyr Pro Phe Lys Pro His Leu Pro
177         275                 280                 285
178 Thr Lys Glu Phe Leu Leu Ser Leu Leu Gln Ile Phe Asp Ala Val Ile
179     290                 295                 300
180 Val His Lys Gln Phe Tyr Leu Phe Tyr Asn Phe Glu Tyr Trp Phe Leu
```

RAW SEQUENCE LISTING   DATE: 04/08/2002
PATENT APPLICATION: US/10/010,050A   TIME: 15:11:42

Input Set : A:\97-38ClSequence Listing.txt
Output Set: N:\CRF3\04082002\J010050A.raw

```
181 305                310             315              320
182 Pro Met Lys Phe Pro Phe Ile Lys Ile Thr Tyr Glu Glu Ile Pro Leu
183                325             330              335
184 Pro Ile Arg Asn Lys Thr Leu Ser Gly Leu
185             340             345
188 <210> SEQ ID NO: 3
189 <211> LENGTH: 18
190 <212> TYPE: DNA
191 <213> ORGANISM: Artificial Sequence
193 <220> FEATURE:
194 <223> OTHER INFORMATION: Oligonucleotide ZC976
196 <400> SEQUENCE: 3
197 cgttgtaaaa cgacggcc                                          18
199 <210> SEQ ID NO: 4
200 <211> LENGTH: 17
201 <212> TYPE: DNA
202 <213> ORGANISM: Artificial Sequence
204 <220> FEATURE:
205 <223> OTHER INFORMATION: Oligonucleotide ZC447
207 <400> SEQUENCE: 4
208 taacaatttc acacagg                                           17
210 <210> SEQ ID NO: 5
211 <211> LENGTH: 20
212 <212> TYPE: DNA
213 <213> ORGANISM: Artificial Sequence
215 <220> FEATURE:
216 <223> OTHER INFORMATION: Oligonucleotide ZC14487
218 <400> SEQUENCE: 5
219 gacttccgtc caaaacctga                                        20
221 <210> SEQ ID NO: 6
222 <211> LENGTH: 20
223 <212> TYPE: DNA
224 <213> ORGANISM: Artificial Sequence
226 <220> FEATURE:
227 <223> OTHER INFORMATION: Oligonucleotide ZC14716
229 <400> SEQUENCE: 6
230 aggggcatcc atttcaggtg                                        20
232 <210> SEQ ID NO: 7
233 <211> LENGTH: 20
234 <212> TYPE: DNA
235 <213> ORGANISM: Artificial Sequence
237 <220> FEATURE:
238 <223> OTHER INFORMATION: Oligonucleotide ZC14712
240 <400> SEQUENCE: 7
241 atggctaaac caagagtctt                                        20
243 <210> SEQ ID NO: 8
244 <211> LENGTH: 20
245 <212> TYPE: DNA
246 <213> ORGANISM: Artificial Sequence
```

```
            RAW SEQUENCE LISTING              DATE: 04/08/2002
            PATENT APPLICATION:  US/10/010,050A     TIME: 15:11:42

            Input Set : A:\97-38ClSequence Listing.txt
            Output Set: N:\CRF3\04082002\J010050A.raw
```

```
        248 <220> FEATURE:
        249 <223> OTHER INFORMATION: Oligonucleotide ZC14710
        251 <400> SEQUENCE: 8
        252 gggtgaaaca ggacaatgaa                                          20
        254 <210> SEQ ID NO: 9
        255 <211> LENGTH: 20
        256 <212> TYPE: DNA
        257 <213> ORGANISM: Artificial Sequence
        259 <220> FEATURE:
        260 <223> OTHER INFORMATION: Oligonucleotide ZC14488
        262 <400> SEQUENCE: 9
        263 ttatgcacca aggaagaaag                                          20
        265 <210> SEQ ID NO: 10
        266 <211> LENGTH: 20
        267 <212> TYPE: DNA
        268 <213> ORGANISM: Artificial Sequence
        270 <220> FEATURE:
        271 <223> OTHER INFORMATION: Oligonucleotide ZC14711
        273 <400> SEQUENCE: 10
        274 ttttctccaa tcaccagcat                                          20
        276 <210> SEQ ID NO: 11
        277 <211> LENGTH: 18
        278 <212> TYPE: DNA
        279 <213> ORGANISM: Artificial Sequence
        281 <220> FEATURE:
        282 <223> OTHER INFORMATION: Oligonucleotide ZC14430
        284 <400> SEQUENCE: 11
        285 gtacatttcc ccatctcc                                            18
        287 <210> SEQ ID NO: 12
        288 <211> LENGTH: 18
        289 <212> TYPE: DNA
        290 <213> ORGANISM: Artificial Sequence
        292 <220> FEATURE:
        293 <223> OTHER INFORMATION: Oligonucleotide ZC14431
        295 <400> SEQUENCE: 12
        296 ccattttcct tccagtga                                            18
        298 <210> SEQ ID NO: 13
        299 <211> LENGTH: 1038
        300 <212> TYPE: DNA
        301 <213> ORGANISM: Artificial Sequence
        303 <220> FEATURE:
        304 <223> OTHER INFORMATION: Degenerate nucleotide sequence encoding zsig46
        305       polypeptide of SEQ ID NO:2
W--> 307 <221> NAME/KEY: misc_feature
        308 <222> LOCATION: (1)...(1038)
        309 <223> OTHER INFORMATION: n = A,T,C or G
W--> 311 <400> 13
W--> 312 atgmgnmgng gngcnggngc ngcnmgnggn mgngcnwsnt ggtgytgggc nytngcnytn   60
W--> 313 ytntggytng cngtngtncc nggntggwsn mgngtnwsng gnathccnws nmgnmgncay  120
```

```
            RAW SEQUENCE LISTING ERROR SUMMARY        DATE: 04/08/2002
            PATENT APPLICATION:   US/10/010,050A      TIME: 15:11:43

                 Input Set : A:\97-38ClSequence Listing.txt
                 Output Set: N:\CRF3\04082002\J010050A.raw
```

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

```
Seq#:13;  N Pos.  6,9,12,15,18,21,24,27,30,33,36,39,51,54,57,60,63,69,72,75
Seq#:13;  N Pos.  78,81,84,90,93,96,99,102,108,111,114,117,126,129,132,141
Seq#:13;  N Pos.  153,156,162,168,180,189,198,201,204,207,210,216,219,228,246
Seq#:13;  N Pos.  252,255,261,264,267,285,291,294,297,303,321,327,333,336,339
Seq#:13;  N Pos.  342,345,348,360,378,387,390,399,405,411,414,417,429,432,450
Seq#:13;  N Pos.  453,456,471,483,501,504,507,510,516,519,522,528,531,552,561
Seq#:13;  N Pos.  579,582,597,606,612,615,618,627,630,636,648,660,669,672,675
Seq#:13;  N Pos.  678,690,693,702,705,726,735,738,747,753,756,762,765,771,774
Seq#:13;  N Pos.  783,786,789,795,798,801,804,813,816,819,822,825,834,846,855
Seq#:13;  N Pos.  861,864,867,879,882,885,888,891,906,909,915,933,960,963,975
Seq#:13;  N Pos.  990,1005,1008,1011,1017,1026,1029,1032,1035,1038
```